

RECRUITMENT

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Postdoctoral Research Associate - Experimental Particle or Nuclear Physics (5320)

The Physics Department at Brookhaven National Laboratory seeks to fill a Postdoctoral Research Associate position in Physics. Requires a Ph.D. in physics with emphasis on experimental particle or nuclear physics.

The candidate will participate in the activities of the group including the design of the Long Baseline Neutrino Experiment, especially the large water Cherenkov detector planned for DUSEL in South Dakota. There will be opportunity to participate in the Daya Bay reactor neutrino experiment in China that will have superb sensitivity to $\sin^2 2\theta_{13}$ and will begin data-taking soon. Participation in the MINOS experiment (Fermilab-Soudan) may also be possible. Travel to DUSEL, Fermilab, Minnesota and/or China should be expected. The candidate will work within the electronic detector group and will have broad associations with other groups in the laboratory and throughout the world to carry out his/her function.

The Electronic Detector Group in the Physics Department currently has ten physicists at various career levels with major current responsibilities in neutrino physics and a long history of research in fundamental particle physics. Under the direction of S. Kettell, Physics Department.

Please go to <http://www.bnl.gov/hr/careers/> and click on Search Job List to apply for this position. Please apply to Job ID # 14944.

BNL policy states that Research Associate appointments may be made to those who have received their doctoral degrees within the past five years.

Brookhaven National Laboratory is an equal opportunity employer committed to building and maintaining a diverse workforce.

The Department of Physics (<http://physics.syr.edu>) invites applications for a

Tenure-Track Assistant Professor in Experimental High Energy Physics.

The appointment will be made jointly with Fermilab. The department currently has a strong research group in experimental high energy physics (Profs. Sheldon Stone, Marina Artuso, Tomasz Skwarnicki and Steven Blusk), currently involved in the LHCb experiment.

The successful candidate is expected to concentrate research activities in future neutrino physics associated with Fermilab. Current research opportunities also exist with the LHCb experiment.

A Ph.D. degree in Physics with a specialization in High Energy Physics is required. Responsibilities include teaching Physics on all levels (undergraduate-lower and upper levels and graduate), and guiding graduate students to advanced degrees including dissertation research.

Two years of post-doctoral research and some college teaching is desirable. All applicants should have a substantial record of research accomplishments and a strong interest and ability to teach effectively at both the graduate and undergraduate levels.

For full consideration, candidates must complete an online Dean/Senior Executive/Faculty Application at <http://www.sujobopps.com> (job #025789). As part of your application, please upload three documents: (1) your formal letter applying for the position, (2) your curriculum vitae (with publication list, etc.), and (3) a personal statement of research and teaching interests (as an "other document"). In addition to the online application, please arrange for three (3) letters of recommendation to be sent to Professor Sheldon Stone

Department of Physics, 201 Physics Bldg.,
Syracuse University, Syracuse, NY 13244-1130 USA
(Email - stone@physics.syr.edu).

The position will remain open until filled.

More information is available at: http://physics.syr.edu/hep/hep_page.html

Syracuse University is an equal opportunity affirmative action employer.



Karlsruhe Institute of Technology (KIT) is the result of the merger of university Karlsruhe and research center Karlsruhe. It is a unique institution in Germany, which combines the mission of a university with that of a large-scale research center of the Helmholtz Association. With 8.000 employees and an annual budget of EUR 650 millions, KIT is one of the largest research and education institutions worldwide.

We wish to employ a

Scientist (f/m)

for our Institute for Data Processing and Electronics (IPE) under an employment contract limited to three years beginning immediately.

Your work will focus on the development of power distribution systems and of systems with pulsed power supply in scientific applications, such as pixel detectors for synchrotron radiation or future large-scale particle physics experiments. At the same time, potential commercial applications shall be identified. Your tasks shall include:

- Design and simulation of power distribution systems
- Setup and characterization of test systems
- Technology transfer
- Participation in collaboration building
- Support of young scientists
- Preparation of publications

Your work will be associated with business travels in Germany and abroad and, hence, it will be suited for part-time employment with certain restrictions only.

Candidates should have studied physics or electrical engineering, completed by a Ph.D. in addition, candidates are required to have:

- Good knowledge of analog electronics
- Experience in the use of specific software (Spice simulation)
- Fluency in written and spoken English
- Target- and team-orientated approach to working
- Willingness to travel

Practical experience in ASIC design or characterization with semiconductor detectors and low-voltage electronics as well as interest in packaging technology will be advantageous.

We offer a challenging scientific task with a high degree of autonomy, a variety of training options, and the use of latest technical equipment.

We prefer to balance the number of female and male employees in our company. In this case, we therefore kindly ask female applicants to apply to this job. If qualified, handicapped applicants will be preferred.

Kindly send your application online or write to Mrs Hase, Personnel Management, phone 0049 7247 82 5011 indicating the vacancy No. 537/2009 and the ID number 20. For technical information, please contact Prof. Dr. Weber, phone: 0049 7247 82 5612.

Karlsruhe Institute of Technology
Personnel Management, North Campus
P.O. Box 36 40 – 76021 Karlsruhe, Germany – www.kit.edu

KIT – University of the State of Baden-Württemberg and
National Laboratory of the Helmholtz Association



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E-mail chris.thomas@iop.org www.brightrecruits.com



SUPERCONDUCTING ACCELERATORS.

**For the Hamburg site we are seeking a:
Leading Scientist (m/f) Accelerator Division
Salary group W3**

DESY

DESY is one of the world leading accelerator centers for research on the structure of matter. DESY develops, builds and operates accelerators and detectors for the research with photons and for particle physics.

Superconducting RF technology is one of the key competences of DESY's accelerator division. In addition to operating and further developing the FLASH facility, DESY is a partner in the European XFEL project, contributing major parts of the accelerator components and leading the international consortium in charge of constructing the accelerator complex.

DESY is seeking a leading senior scientist in the accelerator division with the following responsibilities:

- Project leader of DESY's contributions to the construction and commissioning of the XFEL accelerator complex
- Coordination of international contributions within the XFEL accelerator consortium
- Coordination of further developments at DESY in physics and technology for superconducting accelerators
- Liaison with worldwide ongoing R&D programmes in the field of superconducting RF technology, e. g. in the TESLA technology collaboration and the ILC global design effort

Requirements

- PhD in physics or engineering
- Several years experience in construction and operation of accelerators based on superconducting RF technology
- Several years experience in planning and organizing complex, large scale projects
- Excellent communication and leadership skills

For further information, please contact Prof. Dr. Helmut Dosch (desy-director@desy.de, phone +49 40 8998-3000) or Dr. Reinhard Brinkmann (Reinhard.brinkmann@desy.de, phone +49 40 8998-3197).

Salary and benefits are commensurate with those of public service organisations in Germany. DESY operates flexible work schemes. Handicapped persons will be given preference to other equally qualified applicants. DESY is an equal opportunity, affirmative action employer and encourages applications from women. There is an English-speaking Kindergarten on the DESY site.

Please send your application quoting the reference code, also by e-mail to:

Deutsches Elektronen-Synchrotron DESY

Human Resources Department | Code: 30/2010

Notkestraße 85 | 22607 Hamburg | Germany

Phone: +49 40 8998-3392 | E-mail: personal.abteilung@desy.de

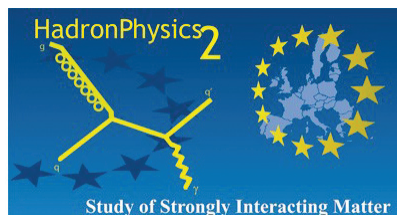
Deadline for applications: 16 May 2010

www.desy.de

The Helmholtz Association is Germany's
largest scientific organisation.
www.helmholtz.de



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Transnational Access to Research Infrastructures

COSY – Forschungszentrum Jülich

HadronPhysics2 - Integrating Activity

Contract No. 227431

01/01/2009 – 30/06/2011

For European users outside Germany the access to the cooler synchrotron COSY is supported by the European Community - Transnational Access and Integrating Activities – Program for the time period from 1/1/2009 till 30/06/2011. It is one of the three activities (networking, joint research, transnational access) of the Integrating Activity “Strongly Interacting Matter” (acronym: “HadronPhysics2”) financed by the European Commission.

COSY delivers polarized and unpolarized proton and deuteron beams up to 3.7 GeV/c momentum at internal and external target stations equipped with extended detector installations. The EC support provides access to COSY “free of charge” and covers the travel and subsistence expenses of the external users. Detailed information can be found at:

www.fz-juelich.de/ikp/tmr-life.html



EMBL is a leading international molecular biology research organisation headquartered in Heidelberg (Germany), with Outstations in Grenoble (France), Hamburg (Germany), Hinxton (U.K.) and Monterotondo (Italy). For our team in Heidelberg we are searching for an experienced

Head of Scientific Instruments Maintenance Service

Ref. no. CC/10/019

The post holder will lead a small team which provides maintenance of sophisticated scientific instruments. Main responsibilities include: preventive and corrective maintenance of light/electron microscopes, centrifuges and core equipment, analytical devices and robotics; interfacing with manufacturers for reconditioning or overhaul; negotiation and management of maintenance contracts with external suppliers.

The ideal candidate has a degree in engineering, electronics or physics and at least 5 years practical experience in a similar position (electronics, optics or mechanical engineering). The ability to manage and organise the work of a small team is mandatory. Industrial training at instrument manufacturers as well as good knowledge of measurement techniques in bio-analytical instrumentation is advantageous. Further essentials: proficiency in MS Office, expertise with database tools and strong communication skills – fluency in English and a good working knowledge of German.

For a complete job description and to apply please visit:

www.embl.org/jobs



The Neutron Sciences Directorate at Oak Ridge National Laboratory (ORNL) invites applications for an Accelerator Operations Manager.

With the United States' highest flux reactor-based neutron source for condensed matter research (the High Flux Isotope Reactor) and the world's most intense pulsed, accelerator-based neutron source (the Spallation Neutron Source), ORNL is becoming the world's foremost center for neutron science. Research at these facilities encompasses the physical, chemical, materials, biological, and medical sciences and will provide opportunities for up to 2000 researchers each year from industry, research facilities, and universities all over the world. To learn more about Neutron Sciences at ORNL go to: <http://neutrons.ornl.gov>.

PURPOSE: This position will provide oversight of accelerator operations and the accelerator operations team during shutdowns, upgrades and production running of SNS accelerator systems. Provide technical and administrative expertise during accelerator operations and coordinate development activities.

MAJOR DUTIES/RESPONSIBILITIES:

- Responsible for the overall safe, efficient, effective operation of SNS Particle Accelerator Systems
- Maintain operation of the SNS Particle Accelerator Systems within the established Accelerator Operations Envelope (OE) and Accelerator Safety Envelope (ASE).
- Develop and execute operations, maintenance and commissioning plans for accelerator systems.
- Provide technical oversight during operations, maintenance and commissioning of all SNS accelerator systems.
- Provide administrative oversight of Accelerator Operations Coordinators, Accelerator Control Room Shift Supervisors and Control Room Accelerator Specialists as required.
- Update and add to the SNS Accelerator Systems Operations Procedures Manual as required.
- Participate in documenting and implementing the development plans within budgetary and schedule constraints.
- Analyze data and prepare reports on the performance metrics for SNS accelerator systems.
- Assist in developing and execute plans for improving the performance of SNS accelerator systems.
- Manage the hiring of the Accelerator Operations Group staff.
- Comply with environmental, safety, health and quality program requirements, including ISMS and SBMS.
- Maintain a strong commitment to the implementation and perpetuation of values and ethics.

QUALIFICATIONS REQUIRED:

At least 10 years experience in design, construction or operation of a particle accelerator and related control systems or an equivalent combination of education and experience. Prior experience in managing or directing physicists, engineers, technicians and accelerator operators desired. A BS degree in physics, engineering or a related field is required and MS degree preferred. Must have excellent written and verbal communications skills. Must be detail oriented.

To learn more and apply for this position, go to: <http://jobs.ornl.gov>

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Max-Planck-Institut für Physik

(Werner-Heisenberg-Institut)



Postdoctoral Positions Gamma-Ray Astrophysics (MAGIC and CTA)

The Max Planck Institute for Physics does fundamental research in particle and astroparticle physics from both an experimental and a theoretical perspective. Our research activities in astroparticle physics comprise participation in the gamma ray telescope MAGIC at the Roque de Los Muchachos Observatory at La Palma (Spain), the future space mission EUSO, and the CRESST dark matter search at Gran Sasso (Italy).

We invite applications for postdoctoral positions in high energy gamma ray astrophysics to strengthen our experimental astroparticle physics group. MAGIC is the world's largest ground-based Imaging Atmospheric Cherenkov telescope stereo system studying the deep universe with high energy gamma rays above 50 GeV. The scientific objectives are the study of high energy astronomical objects, e.g. AGNs, GRBs, Pulsars, and SNRs, and the investigation of fundamental physics. The system has been operating in stereo mode since summer 2009. Please see the MAGIC web site (<http://www.magic.mppmu.mpg.de/>). In parallel, the institute's experimental astroparticle physics group is heavily involved in the next generation project CTA (Cherenkov Telescope Array), which aims at a 10 times better sensitivity than that of currently working IACTs, and covers a wider energy range between a few 10s GeV and 100 TeV.

We are looking for postdoctoral researchers who can contribute to the MAGIC experiment and also to the development of the next generation project CTA. Candidates with an experimental background in cosmic-ray physics, gamma-ray physics, or neighbouring fields, such as elementary particle physics and astrophysics, are invited to apply.

The positions are limited to a period of initially two years, with the possibility of an extension by up to four years. Salary and benefits are in accordance with the German public service pay scale (TVöD). The Max Planck Society wishes to increase the participation of women wherever they are underrepresented; therefore, applications from women are particularly welcome. Following its commitment to an equal opportunities employment policy, the Max Planck Society also especially encourages handicapped persons to submit their applications.

For further information please contact Prof. Masahiro Teshima, e-mail: mteshima@mppmu.mpg.de. Interested scientists should send their applications (including a CV, list of publications and research interest) until 30 April 2010 and arrange for two recommendation letters to be received by the same date at

Max Planck Institute for Physics
(Werner-Heisenberg-Institut)
Ms. Sybille Rodriguez
Föhringer Ring 6, 80805 München, Germany
e-mail: rodi@mppmu.mpg.de



MAX-PLANCK-GESELLSCHAFT



EUROMAGNET CALL FOR PROPOSALS FOR MAGNET TIME

The next deadline for applications for magnet time at
the **LABORATOIRE NATIONAL DES CHAMPS MAGNETIQUES INTENSES**
(ex GHMLF & LNCMP / www.lncmi.cnrs.fr)
the **HIGH FIELD MAGNET LABORATORY** (www.ru.nl/hfml/)
and the **HOCHFELD LABOR DRESDEN** (www.fzd.de/hld)
is May 15th, 2010.

Applications can be done through an on-line application form on the website:
<http://www.euromagnet.org> from April 15th, 2010.

Scientists of EU countries and Associates States* are entitled to apply under FP7 for financial support according to the rules defined by the EC.

*listed on [ftp://ftp.cordis.europa.eu/pub/fp7/docs/third_country_agreements_en.pdf](http://ftp.cordis.europa.eu/pub/fp7/docs/third_country_agreements_en.pdf)

For further information concerning feasibility and planning,
please contact the facility of your choice.





RESEARCH FELLOWS in Astrophysics, Cosmology, Nuclear and Particle Physics

The Cluster of Excellence 'Origin and Structure of the Universe' is a joint research institution at the Technical University Munich funded by the Excellence Initiative of the Federal Government of Germany. It is a co-operation by the physics departments of the Technical University Munich and the Ludwig-Maximilians University, four Max-Planck Institutes (MPA, MPE, MPP, IPP) and ESO. The main goal of the Cluster is to solve fundamental questions of astrophysics and cosmology by interdisciplinary research.

For our **FELLOWSHIP PROGRAM** we are looking for excellent young scientists on the postdoc level who will pursue their individual research activities and are interested in a strong collaboration with existing Cluster research groups. Fellows benefit from an ideal scientific infrastructure at the Campus Garching and the attractions of the Munich area. The duration for **contract is 2 years**. Fellows receive their **own budget** for running costs.

The advancement of women in the science is an integral part of the cluster and the university's policy. Women are therefore especially encouraged to apply. Persons with disabilities will be given preference to other applicants with equal qualifications.

Application

Applicants should prepare a covering letter and the following documents as PDF files: a CV, a publication list, certificates (diploma, PhD), past research activities and a research plan. These files can be uploaded in the job section on the Cluster website www.universe-cluster.de. Further, applicants are asked to arrange for three letters of recommendation to be sent by e-mail to andreas.mueller@universe-cluster.de. The closing date for receipt of applications is **30 April 2010**.

Contact

Technische Universität München · Excellence Cluster Universe
Dr. Andreas Müller · Boltzmannstrasse 2
85748 Garching · Germany



The Institute for Theoretical Physics at the Department of Physics of the Westfälische Wilhelms-University Münster invites applications for a tenured

Professorship in Theoretical Physics - Particle Theory - (salary scale W3)

starting in the winter term of 2010.

The successful candidate should hold a PhD in theoretical physics and should have a strong research and teaching record in the field of quantum field theory or particle theory. The candidate is expected to seek close collaboration with the other theoretical and experimental research groups at the department in the area of particle physics. Teaching obligations include all areas of theoretical physics at the B.Sc. and M.Sc. level. In addition, the successful candidate is expected to participate in the academic administration of the department as well as in the further development of curricula of the B.Sc. and M.Sc. programs as well as graduate programs.

The Westfälische Wilhelms-University Münster is an equal opportunity employer and is committed to raising the proportion of women scientists in academic positions. Consequently, we actively encourage applications from suitably qualified women. Women with the qualifications and disciplinary expertise required will be preferentially considered. We also welcome applications from candidates with severe disabilities who, with suitable qualifications, will be preferentially considered.

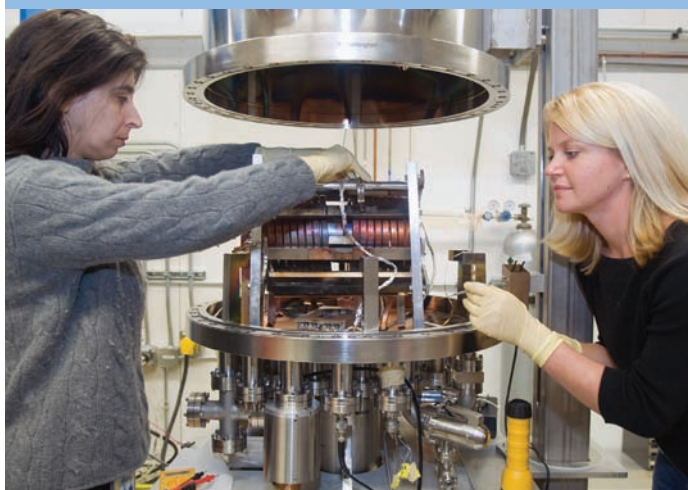
Applications with a C.V., including teaching experience and publication list, copies of degree certificates, and a statement of past and future research interests, should be made by **April 30th, 2010** to the Dean of the Faculty of Physics:

Dekan des Fachbereichs 11 (Physik)
Herrn Prof. Dr. Johannes P. Wessels
Wilhelm-Klemm-Str. 9, 48149 Münster, Germany

www.uni-muenster.de

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Tenure Track Faculty Position in Theoretical Physics Kent Campus, Kent OH

We wish to add support to one of two areas: A) Strong interaction theory related to nuclear matter at high energy density or temperature as typified by experiments such as at RHIC/LHC, or B) Condensed matter theory complementing existing strengths in the department, which include correlated and quantum matter, low temperature physics, and soft matter.

Successful candidates will be expected to teach at the undergraduate and graduate levels and carry out a productive research program that is likely to attract external funding.

Applicants should submit a CV including a list of publications, statements of research and teaching interests, and arrange to have at least three letters of recommendations sent to:

Prof. John Portman, Chair, Theory Faculty Search Committee,
Department of Physics, Kent State University, Kent, Ohio, 44242.
Email: phystheorysearch@kent.edu.

Screening of applications will begin February 15, 2010 and continue until the position is filled. Applicants must also fill out an online application at
<http://jobs.kent.edu/applicants/Central?quickFind=184625>.

Kent State University is an AA/EEO employer.

Computational Accelerator Physicist

Compact Particle Acceleration Corporation (CPAC) is a start-up company focused on the development of the dielectric-wall accelerator (DWA) and its application to particle therapy and other fields of use. DWA technology will form the basis of a compact, high-gradient particle accelerator that is anticipated to be used in medical, security and defense applications.

CPAC collaborates with TomoTherapy and Lawrence Livermore National Laboratory (LLNL) to optimize the DWA for particle therapy and other applications. CPAC will also work with other commercial partners to develop the DWA for non-medical applications.

CPAC has an opening for a Computational Physicist with broad background in accelerators, beam physics, plasma physics and ion sources. The successful candidate will initially participate in research and development, and design activities for high-gradient compact accelerators for cancer therapy. Particular emphasis will be on modeling accelerator beam dynamics including ion beam extraction from sources and beam transport in the system. The successful candidate will take the initiative in overseeing the integration of the research into prototypes and products. This work will be in collaboration with physicists and engineers at LLNL and elsewhere. The successful candidate will be expected to eventually assume a leadership role within CPAC, independently develop a research program and manage external research and development collaborations.

Qualifications:

- Ph. D. in beam physics or plasma physics or related field or equivalent work experience.
- Strong analytical and computational skills.
- Thorough understanding of high current beam transport, charged beam propagation physics, plasma physics and ion sources.
- Significant experience with computational tools such as Mathematica, Maple or Matlab, and familiarity with particle in cell and beam dynamics codes
- Demonstrated communication skills, both verbal and written, necessary to interact effectively in a diverse team environment, and make effective presentations.
- Ability to work both independently in a goal-oriented environment, and in a large multidisciplinary group; able to balance short term deliverables with long term objectives.
- Must be able to provide concrete evidence of initiative, self motivation, outstanding work ethic, and ownership.
- 10+ years of work experience, with substantial experience in a commercial operation.

If interested in this position, please forward cover letter and resume to careers@cpac.pro



X-Ray Physicist

SLAC National Accelerator Laboratory is one of the world's leading research laboratories in particle physics research. SLAC is now a multipurpose laboratory for astrophysics, photon science, accelerator and particle physics research, and is operated by Stanford University for the U.S. Department of Energy. We currently have an opportunity for an X-Ray Physicist.

Responsibilities:

Employee will be responsible for the design and commissioning of X-ray diagnostics for the LCLS X-ray laser. This will include conceptual design, developing specifications for engineering groups, and performing beam experiments to commission components. Employee will lead research and development efforts to validate the design of unique diagnostics systems. Employee will also contribute to the design of the LCLS upgrades and assist in writing design reports. Employee will be responsible for designing and carrying out beam experiments, including working off shift as needed by the program.

Required Skills:

PhD in physics involving accelerator based X-ray light sources, and at least several years of experience with light sources. Demonstrated ability to lead a Research and Development effort involving accelerators or large scale X-ray systems.

Interested applicants can apply online at:

<http://www-public.slac.stanford.edu/hr/jobs/jobdetail.asp?REQID=35239>

SLAC is an equal opportunity employer.

Advertise your vacancy to a global audience
on the new jobs website from IOP Publishing.

www.brightrecruits.com

